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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/027,792	12/20/2001	John R. Adler	1010497-991130	2683
75	590 06/15/2006		EXAM	INER
Daniel E. Ovanezian			JUNG, WILLIAM C	
Blakely, Sokoloff, Taylor & Zafman, LLP 12400 Wilshire Blvd., 7th Floor			ART UNIT	PAPER NUMBER
Los Angeles, C		•	3768	

DATE MAILED: 06/15/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)
Office Action Cummon.	10/027,792	ADLER, JOHN R.
Office Action Summary	Examiner	Art Unit
	William Jung	3768
The MAILING DATE of this communication appeared for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on 15 F 2a) ☐ This action is FINAL. 2b) ☐ This 3) ☐ Since this application is in condition for allowated closed in accordance with the practice under the condition of the condit	s action is non-final. ince except for formal matters, pro	
Disposition of Claims		•
4) ☐ Claim(s) 30-57,59-61 and 63-65 is/are pendin 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 30-57, 59-61, and 63-65 is/are reject 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	ed.	
Application Papers		
9) The specification is objected to by the Examine	ar	
10) The drawing(s) filed on is/are: a) acc	<u> </u>	Examiner.
Applicant may not request that any objection to the	· · · · · · · · · · · · · · · · · · ·	·
Replacement drawing sheet(s) including the correct		
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached Office	Action or form PTO-152.
Priority under 35 U.S.C. § 119		
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicationity documents have been received tu (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s)		•
1) X Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	Paper No(s)/Mail D	

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 30-57, 59-61, and 63-65 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 30-57, 59-61, and 63-65 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Sirimanne et al* (US 6,356,782 B1) in view of *Schweikard et al* (US 6,144,875).

Sirimanne et al substantially disclose all claimed features in claims 30-57, 59-61, and 63-65.

Claims 30, 46, 48, 49, 52, 54, 55, 59-61, 64, and 65: Sirimanne et al disclose a method and device for subcutaneously marking region of interest by depositing a fiducial marker into a target region with biopsy needle where the fiducial marker is radiopaque or echogenic so that the marker is visible via imaging device such as x-ray mammography or ultrasound (col. 2, line 54 – col. 3, line 6; col. 3, lines 33-47; col. 9, lines 29-31). However, Sirimanne et al does to fully specify that needle biopsy surgery and treatment use stereotaxic feedback to monitor the process. This particular deficiency in Sirimanne et al is well known in the art as evident by Schweikard et al where a target organ 151 is imaged by a stereotaxic x-ray device as shown in figure 6 with

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internal markers 152 (col. 5, lines 31-46). The internal markers are no different than fiducial markers such as Sirimanne et al's to analyze and localize the target image. There fore it would have been obvious to one having an ordinary skill in the art at the time the invention was made to apply the teachings of Schweikard et al's stereotaxic imaging system with Sirimanne et al's fiducial marker deposition to achieve the claimed invention.

Claim 31: Schweikard et a1.'875 further teach tracking the target region during the stereotaxic radiosurgery (see col. 3, line 39-col. 4, line 53*, referring to tracking the target region while performing radiosurgery).

Claim 32: Schweikard et a1.'875 further teach applying radiation treatment to the target region (see col. 4, lines 9-22).

Claim 33: Schweikard et a1.'875 further teach anchoring the fiducial in the target region to prevent migration of the fiducial relative to the target region (see col. 5, lines 8-30, referring to the attachment of the fiducials or markers on the organ of interest so that organ can be traced for accurate treatment).

Claims 34 and 35: Schweikard et a1.'875 further teach viewing the fiducial using an x-ray imager, wherein the fiducial comprises a radiopaque, material or viewing the fiducial using an ultrasonic imager, wherein the fiducial comprises an ultrasonic opaque material (see col. 5, lines 20-30).

Claims 36-45, 47, 50, 53, and 57: Sirimanne et al disclose the markers being anchored to the area of interest via wire or suture introduced from the same lumen where the markers are placed in the region of interest. And since the suture or wire is introduced after the markers are placed in the region of interest, it is interpreted as having unanchored position prior to affixing

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the markers to the surrounding tissue, i.e. anchored position (col. 6, lines 56-67). In addition, the shape and composition of the anchors as described in the applicant's claims 37-43 are design choice where the end result of the anchoring is functionally equivalent to Sirimanne et al's anchoring apparatus.

Claims 51, 56, and 63: Sirimanne et al further disclose that the method is used to target tumor (col. 1, lines 34-42).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William Jung, Ph.D. whose telephone number is 571-272-4739. The examiner can normally be reached on Mon-Fri 8:30 AM to 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eleni Mantis-Mercader can be reached on 571-272-4740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

خگاری June 7, 2006

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700